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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Van Borselen

Art Unit : 2862

Serial No.: 09/822,115

Examiner : Gutierrez, A.

Filed : 03/30/2001

Title : METHOD OF IDENTIFICATION OF NON-PRIMARY EVENTS IN SEISMIC DATA

Assistant Commissioner for Patents
Washington, DC 20231

REPLY UNDER 37 CFR § 1.111

Dear Sir:

In response to the Office Action dated July 8, 2002, please amend the application as follows and consider the included remarks.

IN THE SPECIFICATION:

Please replace drawings sheets as originally filed having thereon Figure 4 and Figure 5 with a new drawing sheet having thereon Figure 4 and Figure 5.

At the top of page 7, please replace the section title, "DESCRIPTION OF EXAMPLE EMBODIMENTS OF THE INVENTION" with the section title, "DESCRIPTION OF THE PREFERRED EMBODIMENTS."

IN THE CLAIMS:

Please amend the claims as indicated below. A marked up copy of the claims showing insertions and deletions is provided in Appendix A.

1. (Amended) A method of identification of primary events in seismic data, the method comprising:

21 sorting the data by frequency wherein at least some non-primary events are separated from primary events, wherein a frequency sorted gather of data results;
attenuating in the frequency-sorted gather amplitudes above a pre-selected base amplitude, wherein attenuated amplitudes result;